

CHEMICO-BIOLOGICAL INTERACTIONS

SUBJECT INDEX

VOLUME 68 (1988)

- Acetaminophen, reactive drug metabolites, drug-protein covalent adducts, hemoglobin, 99
- Acetaminophen metabolism, thiol adducts, benzoquinone, 85
- Adrenodoxin, cytochrome *P*-450<sub>scc</sub>, second derivative spectroscopy, component interaction, functional linkage (stability and substrate turnover), 71
- Alkylation, 7-alkylguanine, depurination, imidazole ring-opening, DNA adduct, pK<sub>a</sub>, 117
- 7-Alkylguanine, alkylation, depurination, imidazole ring-opening, DNA adduct, pK<sub>a</sub>, 117
- Ames test, food mutagens, streptozotocin, diabetes, cytochrome *P*-450, metabolic activation, 189
- 2-Amino-6-methyldipyrido[1, 2-*a*, 3', 2'-*d*]imidazole, thiol, sulfinamide, *N*-hydroxy-sulfonamide, glutathione conjugation, detoxification, 57
- Apurinic site, depurination, phosphodiester cleavage, strand break, dinucleotide, 153
- Autoxidation,  $\alpha$ -hydroxyquinones, quinone epoxides, *p*-benzoquinone, glutathione, nucleophilic addition, semiquinones, 273
- Benzoquinone, acetaminophen metabolism, thiol adducts, 85
- p*-Benzoquinone,  $\alpha$ -hydroxyquinones, quinone epoxides, glutathione, nucleophilic addition, autoxidation, semiquinones, 273
- Benzo[*a*]pyrene, fluoranthene, cocarcinogenicity, DNA-binding, metabolism in vivo, 127
- Cocarcinogenicity, benzo[*a*]pyrene, fluoranthene, DNA-binding, metabolism in vivo, 127
- Component interaction, cytochrome *P*-450<sub>scc</sub>, adrenodoxin, second derivative spectroscopy, functional linkage (stability and substrate turnover), 71
- Covalent binding, 4-nitrobenzyl mercaptan *S*-sulfate, protein sulfhydryl group, mixed disulfide bond, glutathione, 27
- Cytochrome *P*-450, food mutagens, streptozotocin, diabetes, metabolic activation, Ames test, 189
- , macrolide antibiotics, roxythromycin, erythromycin, troleandomycin, 179
- Cytochrome *P*-450<sub>scc</sub>, adrenodoxin, second derivative spectroscopy, component interaction, functional linkage (stability and substrate turnover), 71
- Cytosol, hexachlorobutadiene, glutathione *S*-transferase, liver, microsomes, 1
- Depurination, 7-alkylguanine, alkylation, imidazole ring-opening, DNA adduct, pK<sub>a</sub>, 117
- , apurinic site, phosphodiester cleavage, strand break, dinucleotide, 153
- Detoxification, thiol, sulfinamide, 2-amino-6-methyldipyrido[1, 2-*a*, 3', 2'-*d*]imidazole, *N*-hydroxy-sulfonamide, glutathione conjugation, 57
- Diabetes, food mutagens, streptozotocin, cytochrome *P*-450, metabolic activation, Ames test, 189
- Dimethylnitrosamine, DNA alkylation, neonatal carcinogenesis, *O*<sup>6</sup>-methylguanine, *O*<sup>6</sup>-methylguanine-DNA methyltransferase, 259
- Dinucleotide, depurination, apurinic site, phosphodiester cleavage, strand break, 153
- DNA-binding, benzo[*a*]pyrene, fluoranthene, cocarcinogenicity, metabolism in vivo, 127
- DNA adduct, 7-alkylguanine, alkylation, depurination, imidazole ring-opening, pK<sub>a</sub>, 117
- DNA alkylation, neonatal carcinogenesis, *O*<sup>6</sup>-methylguanine, *O*<sup>6</sup>-methylguanine-DNA methyltransferase, dimethylnitrosamine, 259

- Drug-protein covalent adducts, acetaminophen, reactive drug metabolites, hemoglobin, 99
- Epoxide hydrolase, peroxisome proliferation, induction, liver, mice, 219
- Erythromycin, macrolide antibiotics, cytochrome *P*-450, roxythromycin, troleandomycin, 179
- Fluoranthene, benzo[*a*]pyrene, cocarcinogenicity, DNA-binding, metabolism in vivo, 127
- Food mutagens, streptozotocin, diabetes, cytochrome *P*-450, metabolic activation, Ames test, 189
- Functional linkage (stability and substrate turnover), cytochrome *P*-450<sub>scc</sub>, adrenodoxin, second derivative spectroscopy, component interaction, 71
- Glutathione, covalent binding, 4-nitrobenzyl mercaptan *S*-sulfate, protein sulfhydryl group, mixed disulfide bond, 27
- ,  $\alpha$ -hydroxyquinones, quinone epoxides, *p*-benzoquinone, nucleophilic addition, autoxidation, semiquinones, 273
- Glutathione conjugation, thiol, sulfinamide, 2-amino-6-methyldipyrido[1,2-*a*,3',2'-*d*]imidazole, *N*-hydroxy-sulfonamide, detoxification, 57
- Glutathione *S*-transferase, hexachlorobutadiene, liver, cytosol, microsomes, 1
- Glycine, hydroxyalkenals, pyridinium derivatives, lipid peroxidation, 165
- Hemoglobin, acetaminophen, reactive drug metabolites, drug-protein covalent adducts, 99
- Hexachlorobutadiene, glutathione *S*-transferase, liver, cytosol, microsomes, 1
- N*-Hydroxy-sulfonamide, thiol, sulfinamide, 2-amino-6-methyldipyrido[1,2-*a*,3',2'-*d*]imidazole, glutathione conjugation, detoxification, 57
- Hydroxyalkenals, glycine, pyridinium derivatives, lipid peroxidation, 165
- $\alpha$ -Hydroxyquinones, quinone epoxides, *p*-benzoquinone, glutathione, nucleophilic addition, autoxidation, semiquinones, 273
- Imidazole ring-opening, 7-alkylguanine, alkylation, depurination, DNA adduct,  $pK_a$ , 117
- Induction, epoxide hydrolase, peroxisome proliferation, liver, mice, 219
- Inhibitor, lysinoalanine, protein synthesis, lysyl, tRNA, synthetase, 241
- Lipid peroxidation, hydroxyalkenals, glycine, pyridinium derivatives, 165
- Liver, epoxide hydrolase, peroxisome proliferation, induction, mice, 219
- , hexachlorobutadiene, glutathione *S*-transferase, cytosol, microsomes, 1
- Lymphocyte activation, thiols, oxidative stress, 137
- Lysinoalanine, protein synthesis, lysyl, tRNA, synthetase, inhibitor, 241
- Lysyl, lysinoalanine, protein synthesis, tRNA, synthetase, inhibitor, 241
- Macrolide antibiotics, cytochrome *P*-450, roxythromycin, erythromycin, troleandomycin, 179
- Mechanism of interference, 3,4,3',4'-tetrachlorobiphenyl, retinol, plasma transport, rodents, 203
- Metabolic activation, food mutagens, streptozotocin, diabetes, cytochrome *P*-450, Ames test, 189
- Metabolism in vivo, benzo[*a*]pyrene, fluoranthene, cocarcinogenicity, DNA-binding, 127
- O*<sup>6</sup>-Methylguanine, DNA alkylation, neonatal carcinogenesis, *O*<sup>6</sup>-methylguanine-DNA methyltransferase, dimethylnitrosamine, 259
- O*<sup>6</sup>-Methylguanine-DNA methyltransferase, DNA alkylation, neonatal carcinogenesis, *O*<sup>6</sup>-methylguanine, dimethylnitrosamine, 259
- Mice, epoxide hydrolase, peroxisome proliferation, induction, liver, 219
- Microsomes, hexachlorobutadiene, glutathione *S*-transferase, liver, cytosol, 1
- Mixed disulfide bond, covalent binding, 4-nitrobenzyl mercaptan *S*-sulfate, protein sulfhydryl group, glutathione, 27
- Model oxidation, oxoporphinatoiron, PAH oxidation, NIH shift, 39
- Neonatal carcinogenesis, DNA alkylation, *O*<sup>6</sup>-methylguanine, *O*<sup>6</sup>-methylguanine-DNA methyltransferase, dimethylnitrosamine, 259

- NIH shift, model oxidation, oxoporphinatoiron, PAH oxidation, 39
- 4-Nitrobenzyl mercaptan *S*-sulfate, covalent binding, protein sulfhydryl group, mixed disulfide bond, glutathione, 27
- Nucleophilic addition,  $\alpha$ -hydroxyquinones, quinone epoxides, *p*-benzoquinone, glutathione, autoxidation, semiquinones, 273
- Oxidative stress, thiols, lymphocyte activation, 137
- Oxoporphinatoiron, model oxidation, PAH oxidation, NIH shift, 39
- PAH oxidation, model oxidation, oxoporphinatoiron, NIH shift, 39
- Peroxisome proliferation, epoxide hydrolase, induction, liver, mice, 219
- Phosphodiester cleavage, depurination, apurinic site, strand break, dinucleotide, 153
- $pK_a$ , 7-alkylguanine, alkylation, depurination, imidazole ring-opening, DNA adduct, 117
- Plasma transport, mechanism of interference, 3,4,3',4'-tetrachlorobiphenyl, retinol, rodents, 203
- Protein sulfhydryl group, covalent binding, 4-nitrobenzyl mercaptan *S*-sulfate, mixed disulfide bond, glutathione, 27
- Protein synthesis, lysinoalanine, lysyl, tRNA, synthetase, inhibitor, 241
- Pyridinium derivatives, hydroxyalkenals, glycine, lipid peroxidation, 165
- Quantitative structure activity relationships, trypsin, serine and cysteine proteases, through resonance, Rho values, 13
- Quinone epoxides,  $\alpha$ -hydroxyquinones, *p*-benzoquinone, glutathione, nucleophilic addition, autoxidation, semiquinones, 273
- Reactive drug metabolites, acetaminophen, drug-protein covalent adducts, hemoglobin, 99
- Retinol, mechanism of interference, 3,4,3',4'-tetrachlorobiphenyl, plasma transport, rodents, 203
- Rho values, trypsin, quantitative structure activity relationships, serine and cysteine proteases, through resonance, 13
- tRNA, lysinoalanine, protein synthesis, lysyl, synthetase, inhibitor, 241
- Rodents, mechanism of interference, 3,4,3',4'-tetrachlorobiphenyl, retinol, plasma transport, 203
- Roxythromycin, macrolide antibiotics, cytochrome *P*-450, erythromycin, troleandomycin, 179
- Second derivative spectroscopy, cytochrome *P*-450<sub>scc</sub>, adrenodoxin, component interaction, functional linkage (stability and substrate turnover), 71
- Semiquinones,  $\alpha$ -hydroxyquinones, quinone epoxides, *p*-benzoquinone, glutathione, nucleophilic addition, autoxidation, 273
- Serine and cysteine proteases, trypsin, quantitative structure activity relationships, through resonance, Rho values, 13
- Strand break, depurination, apurinic site, phosphodiester cleavage, dinucleotide, 153
- Streptozotocin, food mutagens, diabetes, cytochrome *P*-450, metabolic activation, Ames test, 189
- Sulfinamide, thiol, 2-amino-6-methyldipyrido[1,2- $\alpha$ ,3',2'-*d*]imidazole, *N*-hydroxy-sulfonamide, glutathione conjugation, detoxification, 57
- Synthetase, lysinoalanine, protein synthesis, lysyl, tRNA, inhibitor, 241
- 3,4,3',4'-Tetrachlorobiphenyl, mechanism of interference, retinol, plasma transport, rodents, 203
- Thiol, sulfinamide, 2-amino-6-methyldipyrido[1,2- $\alpha$ ,3',2'-*d*]imidazole, *N*-hydroxy-sulfonamide, glutathione conjugation, detoxification, 57
- Thiols, lymphocyte activation, oxidative stress, 137
- Thiol adducts, acetaminophen metabolism, benzoquinone, 85
- Through resonance, trypsin, quantitative structure activity relationships, serine and cysteine proteases, Rho values, 13
- Troleandomycin, macrolide antibiotics, cytochrome *P*-450, roxythromycin, erythromycin, 179
- Trypsin, quantitative structure activity relationships, serine and cysteine proteases, through resonance, Rho values, 13



1900

1. The first part of the report deals with the general situation of the country and the progress of the work during the year. It is divided into two main sections: the first section deals with the general situation of the country and the progress of the work during the year, and the second section deals with the results of the work during the year.

2. The second part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

3. The third part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

4. The fourth part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

5. The fifth part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

6. The sixth part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

7. The seventh part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

8. The eighth part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

9. The ninth part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

10. The tenth part of the report deals with the results of the work during the year. It is divided into two main sections: the first section deals with the results of the work during the year, and the second section deals with the results of the work during the year.

CHEMICO-BIOLOGICAL INTERACTIONS

AUTHOR INDEX

VOLUME 68 (1988)

Akhrem, A.A.	71	Lavoie, E.J.	127
Axworthy, D.B.	99	Lawrence, D.A.	137
Ayrton, A.D.	189	Lifsey, B.J., Jr.	241
		Lundgren, B.	219
Baillie, T.A.	85, 99		
Ball, L.M.	39		
Bass, S.L.	189	Mansuy, D.	179
Birberg, W.	219	Mariani, L.	259
Blaner, W.S.	203	Meijer, J.	219
Brouwer, A.	203	Miwa, K.	27
Brunmark, A.	273	Morgenstern, R.	1
Cadenas, E.	273	Napetschnig, S.	165
Calleman, C.J.	85, 99		
Chashchin, V.L.	71		
Chow, M.	13	Okuda, H.	27
Citti, L.	259	Ormstad, K.	1
Coccia, P.	259		
DeFloria, M.C.	127	Pascoe, G.A.	85, 99
Delaforge, M.	179	Pilotti, A.	219
DePierre, J.W.	219		
Diomedes, L.	259	Rein, H.	71
Duncan, D.D.	137	Reyniers, J.P.	241
		Rice, J.E.	127
Esterbauer, H.	165	Ristau, O.	71
		Romano, M.	259
Farkas, W.R.	241	Ruckpaul, K.	71
Flatt, P.R.	189		
Gerdes, R.G.	1	Salmona, M.	259
Gold, A.	39	Sangaiah, R.	39
Grivas, S.	57	Sartori, E.	179
		Sato, S.	57
Hansch, C.	13	Schauenstein, E.	165
Hemminki, K.	117, 153	Selassie, C.D.	13
Hoffmann, K.-J.	99	Sensenhauser, C.	127
		Shkumatov, V.M.	71
Ioannides, C.	189	Smettan, G.	71
		Streeter, A.J.	99
Jayaraj, K.	39	Sugimura, T.	57
Jones, T.W.	1		
		Trinick, J.	189
Kukler, A.	203	Umemoto, A.	57

van den Berg, K.J.  
Vodička, P.

203  
117, 153

Watabe, T.

27

Walker, R.  
Wallin, A.

189  
1

Yamaizumi, Z.  
Yoshioka, S.

57  
27